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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Numb r	10/055,143		
Filing Date	01/22/2002		
First Named Inventor	Chapman		
Group Art Unit	1644		
Examiner Name	Not Yet Assigned		
Attorney Docket Number	18242-508 CIP2 (VI-8 CIP2)		

				U.S. PATENT DOCUMENTS	· ·		
Exam Cite Initials No.		U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
114	A10	3,636,196	1/18/72	Bauer, et al.			
1	A11	4,429,045	1/31/84	Bass, et al.		ĺ	5/10/82
	A12	4,567,042	1/28/86	Acree, et al.			6/7/84
	A13	5,229,012	7/20/93	Pall, et al.			6/24/91
	A14	5,547,576	8/20/96	Onishi, et al.			6/6/93
	A15	5,808,011	9/15/98	Gawryi, et al.			7/1/96
	A16	6,093,564	7/25/00	Budowsky, et al.			1/12/98
	A17	6,099,734	8/8/00	Boggs, et al.			7/8/98
1	A18	6,139,878	10/31/00	Summaria, et al.			4/27/98
	A19	6,114,108	9/5/02	Budowsky			8/29/95
	A20	6,136,586	10/24/00	Budowsky			5/13/97
	A21	6,150,109	11/21/00	Edson, et al.			1/25/99
	A22	5,891,705	4/6/99	Budowsky, et al.		TI	4/8/97
	A23	6,352,695	5/5/02	Budowsky, et al.			10/3/97
	A24	6,166,187	12/26/00	Prusiner, et al.			5/5/99
	A25	6,197,207	3/6/01	Chapman, et al.			5/21/97
1	A26	6,221,614	4/24/01	Prusiner, et al.			1/20/99
\top	A27	6,251,295	6/26/01	Johnson			1/8/98
1	A28	6,369,048	4/9/02	Budowsky, et al.			1/12/98
1	A29	6,403,359	1/11/02	Purmal, et al.			9/25/98
韦	A30	6,410,219	6/25/02	Cook, et al.	1	1	3/30/00

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Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
MM	A31	2002/0034724	3/21/02	Edson, et al.			6/8/01
11	A32	2001/0009756	7/26/01	Hei, et al.			7/8/98
6.	A33	2001/0018179	12/30/01	Hei			7/8/98

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Exam	Cite	Forei	gn Patent Document	Name of Patentee(s) or Applicant(s)	Date of Publication	Translatio
Initials	No.	Office	Number	The second of the second of		Yes No
the	B9	wo	97/07674	Pentose Pharmaceuticals, Inc.	3/6/97	
1	B10	wo	98/30327	CERUS Corporation	7/16/98	
	B11	wo	98/45415	Pentose Pharmaceuticals, Inc.	10/15/98	•
	B12	wo	99/17802	Pentose Pharmaceuticals, Inc.	4/15/99	
	B13	wo	99/34797	Pentose Pharmaceuticals, Inc.	7/15/99	
T	B14	wo	99/34914	Cerus Corporation	7/15/99	
	B15	wo	99/34915	Cerus Corporation	7/15/99	
1	B16	wo	00/43048	Common Services Agency	7/21/00	
	B17	wo	00/43782	The Regents of The University of California	7/27/00	
	B18	wo	99/34839	Cerus Corporation	7/15/99	
	B19	wo	00/18412	Pentose Pharmaceuticals, Inc.	4/6/00	
	B20	wo	00/43549	V.I. Technologies, Inc.	7/27/00	
1	B21	wo	00/74731	Baxter International, Inc.	12/14/00	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Exam Initials	Cite No.						
40	C22	Mollison et al. (1997). "Blood Transfusion in Clinical Medicine" Tenth Edition, Blackwell Science: 4.					
- T	C23	Brown, et al. (1998). "The Distribution of Infectivity in Blood Components and Plasma Derivatives in Experimental Models of Transmissible Spongiform Encephalopathy" <i>Transfusion</i> 38: 810-816.					
	C24	Ackerman, et al. (1998). Abstract: "INACTINE™ - A potent and Selective Method for Inactivating Viruses in Contaminated Blood Products" 25 th Congress of the International Society of Blood Transfusions (ISBT).					
	C25	Edson, et al. (1998). Abstract: "INACTINE™ - An Inactivation Technology for Reducing the Viral infectivity of Plasma-Derived Proteins and Red Blood Cells" <i>IBC 2</i> rd <i>International Symposium on Viral Clearance</i> .					
	C26	Edson, et al. (1998) Abstract \$277: "INACTINE™ - A Viral Inactivation Technology for Reducing the Infectivity of Plasma-Derived Proteins" 51st Annual Meeting of the American Association of Blood Banks (AABB), held in Philadelphia, PA, October 31 – November 4, 1998.					
	C27	Purmal, et al. (1998). Abstract S279: "INACTINE™ - A Method for Viral Inactivation in Red Blood Cell Concentrate" 51st Annual Meeting of the American Association of Blood Banks (AABB), held in Philadelphia, PA, 1998; Oct. 31 – Nov. 4, 1998.					
	C28	Ackerman, et al. (1999). Abstract: "INACTINE™ - A Viral Inactivation Technology for Reducing the Infectivity of Plasma-Derived Proteins" CHI 5 th Annual Conference on Blood Safety & Screening, held in McLean, VA, Feb. 22-24, 1999.					
	C29	Edson, et al. (1999). Abstract \$496-040C: "Viral Inactivation in Red Blood Cell Concentrates by INACTINE™: Mechanism of Action and Lack of Effort on Red Cell Physiology" 52 nd Annual Meeting of the American Association of Blood Banks (AABB).					
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	C31	Lazo, et al. (2000). Abstract S141-0401: "Viral Inactivation of U1 Cell-Associated HIV in Red Blood Cell Concentrates Treated by the INACTINE™ Technology:" 53 rd Annual Meeting of the American Association of Blood Banks (AABB), held in Washington, DC, November 4-8, 2000.					
	C32	Purmal, et al.(2000) Abstract: "Pathogen Inactivated Red Blood Cells Prepared with the INACTINE™ Technology Effect on Red Cell Physiology and Bacterial Growth" along with associated poster. 53 rd Annual Meeting of the American Association of Blood Banks (AABB), held in Washington, DC, November 4-8, 2000.					
	C33	Chapman, J. et al. (2000). Abstract No. 257: "Preclinical Safety Assessment of Red Blood Cells Virally Inactivated by INACTINE™: Lack of Neoantigenicity", along with the associated poster. American Society of Hematology, 42nd Annual Meeting, held in san Francisco, CA, 12/1 - 12/5/00.					
	C34	Pereira, M. et al. (2001). Abstract SP175: "Inactivation of Virulent Tryoanasoma Cruzi Trypomastigotes by the INACTINE™ Process": along with the associated poster 54 th Annual AABB Meeting, San Antonio, TX, October 13 17, 2001.					
	C35	AuBuchon, J.P. et al. (2001). Abstract \$136-040K: "Phase I Clinical Trial of Pathogen-Inactivated Red Blood Cells, Using INACTINE™ Chemistry" 54 th Annual AABB Meeting, San Antonio, TX, October 13-17, 2001.					

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Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.					
M	C36	Purmal, A. et al. (2001). Abstract SP185: "Removal of White Blood Cell and Plasma Proteins from Leukofiltered Red Blood Cell Concentrates by INACTINE™ Pathogen Inactivation", along with the associated poster, 54 th Annual AABB Meeting, San Antonio, TX, October 13-17, 2001.					
1	C37	Chapman, J. et al. (2001). Abstract SP181: "Lack of Toxicity of PEN110 Treated Red Blood Cells Without PEN110 Removal in New Zealand White Rabbits", along with the associated poster 54th Annual AABB Meeting, San Antonio, TX, October 13-17, 2001.					
	C38	Purmal, et al. (2001). Abstract SP183: "Collection System Equivalency Using the INACTINE™ Process for Pathogen Inactivation: Red Cell Quality assessment" along with the associated poster 54 th Annual AABB Meeting, San Antonio, TX, October 13-17, 2001.					
	C39	Zavizion, et al. (2001). Abstract SP180::"Collection System Equivalency Using the INACTINE™ Process for Pathogen Inactivation: Bacterial Inactivation Assessment" along with the associated poster 54 th Annual AABB Meeting, San Antonio, TX, October 13-17, 2001.					
	C40	43 ^{ro} Annual ASH Meeting, held in Orlando, FL, December 7-11, 2001: Abstract 2268 : "High Efficiency Removal of Prion Proteins from Red Cell Concentrates by the INACTINE™ Process", along with the associated poster.					
	C41	Popovsky, M.A. (2001). "Frozen and Washed Red Blood Cells: New Approaches and Applications" <i>Transfusion and Apheresis Science</i> 25:193-194.					
	C42	Valeri, C.R. et al. (1984). "The 24-Hour Posttransfusion Survival, Oxygen Transport Function, and Residual Hemolysis of Human Outdated-Rejuvenated Red Cell Concentrates After Washing and Storage at 4°C for 24 to 72 Hours" <i>Transfusion</i> 24(4): 323-26.					
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	C44	DeVenuto, F. et al. (1974). "Rejuvenation of Human Red Blood Cells During Liquid Storage" <i>Transfusion</i> 14(4): 338-344.					
	C45	Valeri C. R. et al. (1980). "Therapeutic Effectiveness and Safety of Outdated Human Red Blood Cells Rejuvenated to Restore Oxygen Transport Function to Normal, Frozen for 3 to 4 Years at -80° C, Washed, and Stored at 4°C for 24 Hours Prior to Rapid Infusion" <i>Transfusion</i> 20(2):159-170.					
	C46	Valeri, C.R. et al. (1980). "Therapeutic Effectiveness and Safety of Outdated Human Red Blood Cells Rejuvenated to Improve Oxygen Transport Function, Frozen for About 1.5 Years at 80° C, Washed, and Stored at 4° C for About 24 Hours Prior to Rapid Infusion" <i>Transfusion</i> 20 (3): 263-276.					
	C47	Tsvetkova, E.A et al. (2001). "Principles of Selective Inactivation of a Viral Genome. Comparative Kinetic Study of Modification of the Viral RNA and Model Protein with Oligoaziridines" Biochemistry (Moscow) 66(8): 875-884. Translated from Biokhimiya 66 (8) 2001:1078-1088.					
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	C49	Burrage, et al. (1999). "Inactivation of Viruses by Aziridines" Brown F, Vyas G (eds). Advances in Transfusion Saftey. Dev Biol. Basel, Karger 102: 131-139.					
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* a copy of t	his reference is not provided as if	was previously cited by or submitted to the office in a prior application,
	, filed	, and relied upon for an earlier filing date under
35 U.S.C. §	120 (continuation, continuation-In	-part, and divisional applications).
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	Examiner Signature	6/	4	, de	Nun	Date Considered	8/19/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Modified Form 1449/PTO	Application Number	10/055,143
PE	で、Filing Date	01/22/2002
INFORMATION DISCLOSURE	Tyrst Named Inventor	Chapman
STATEMENT BY APPLICANT	Group Art Unit	
/ Wash a	Ękaminer Name	Not Yet Assigned
(use as many sheets as necessary)	Attorney Docket Number	18242-508 CIP2 (VI-8 CIP2)
W7 0 TQ	J. C.	

	U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate	
1/1	A1	4,482,342	11/13/84	Lueptow, Richard M. et al.	494	21		
1	A2	4,585,735	04/29/86	Meryman, Harold T. et al.	435	2		
	А3	4,668,214	05/26/87	Reeder, Gary G.	494	37		
	A4	5,250,303	10/05/93	Meryman, Harold T. et al.	424	533		
	A5	5,298,016	03/29/94	Gordon, Lucas S.	609	4		
	A6	5,601,972	02/11/97	Meryman, Harold R.	435	2		
	A7	5,671,135	09/23/97	Jorgensen, Glen et al.	364	181		
	A8	5,769,839	06/23/98	Carmen, Raleigh A. et al.	604	408		
か	A9	5,906,915	05/25/99	Payrat, Jean-Marc et al.	435	2		

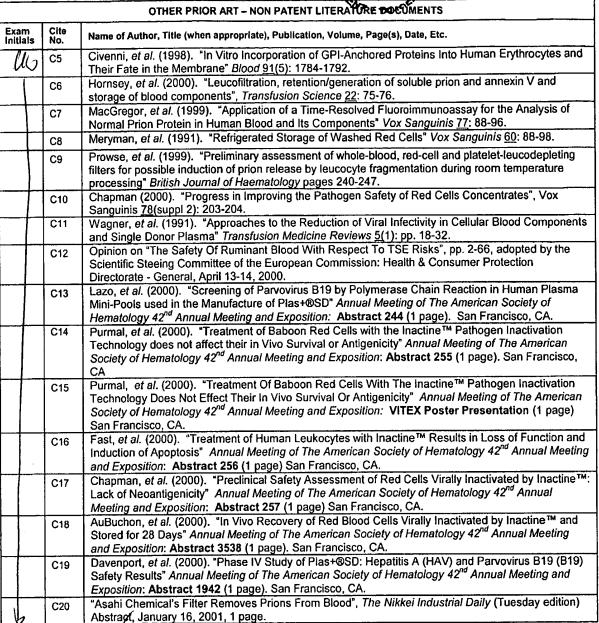
	FOREIGN PATENT DOCUMENTS									
Exam Initials	Cite No.	Foreig Office	gn Patent Document Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Trans Yes	lation No			
11/~	B1	wo	91/04659	American Red Cross	18 April 1991	х				
	B2	wo	97/15685	Ernst-Ludwig Winnacker	01 May 1997	х				
	В3	wo	97/43649	Ernst-Ludwig Winnacker	20 November 1997	х				
	B4	wo	98/21944	New York Blood Center	28 May 1998	х				
	B5	wo	98/52629	Zymequest, Inc.	26 November 1998	х				
T	B6	wo	00/18969	Pentose Pharmaceuticals, Inc.	06 April 2000	х				
	B7	wo	00/29849	Wallacoy	25 May 2000	х				
#	B8	wo	00/33653	Haemonetics Corporation	15 June 2000	х				

deglycerolized RBCs after storage at 4°C for up to 14 days in sodium chloride alone or sodii chloride supplemented with additive solutions" <i>Transfusion</i> 40(11):1337-1340. C2 Moore, et al. (1993). "In vivo viability studies of two additive soultions in the postthaw prese red cells held for 3 weeks at 4°C" <i>Transfusion</i> 33(9): 709-712.		,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
deglycerolized RBCs after storage at 4°C for up to 14 days in sodium chloride alone or sodium chloride supplemented with additive solutions" <i>Transfusion</i> 40(11):1337-1340. C2 Moore, et al. (1993). "In vivo viability studies of two additive soultions in the postthaw prese red cells held for 3 weeks at 4°C" <i>Transfusion</i> 33(9): 709-712. C3 Houston, et al. (2000). "Transmission of BSE by blood transfusion in sheep" <i>Lancet</i> 356(92)			Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
red cells held for 3 weeks at 4°C" <i>Transfusion</i> 33(9): 709-712. C3 Houston, et al. (2000). "Transmission of BSE by blood transfusion in sheep" <i>Lancet</i> 356(92)	lh	C1	Valeri, et al. (2000). "Posttransfusion survival (24-hour) and hemolysis of previously frozen, deglycerolized RBCs after storage at 4°C for up to 14 days in sodium chloride alone or sodium chloride supplemented with additive solutions" <i>Transfusion</i> 40(11):1337-1340.
		C2	Moore, et al. (1993). "In vivo viability studies of two additive soultions in the postthaw preservation of red cells held for 3 weeks at 4°C" <i>Transfusion</i> 33(9): 709-712.
		C3	Houston, et al. (2000). "Transmission of BSE by blood transfusion in sheep" Lancet 356(9234): 999-1000.
Barclay, et al. (1999). "Distribution of cell-associated prion protein in normal adult blood det by flow cytometry" British Journal of Haematology 107: 804-814.	A		Barclay, et al. (1999). "Distribution of cell-associated prion protein in normal adult blood determined by flow cytometry" British Journal of Haematology 107: 804-814.

Page 2 of 3

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Page 3 of 3

Men	C21	Opinion on, "The Implications of the Houston et al. Paper in the Lancet of 16 September 2000 on the Transmission of BSE by Blook Transfusion in Sheep." (The Lancet, Vol. 356, pp. 999-1000; 955-956; 1013), pp. 2-12, adopted by the Scientific Steering Committee of the European Commission: Health & Consumer Protection Directorate - General.
* а сору	of this r	eference is not provided as it was previously cited by or submitted to the office in a prior application,

Serial No. ______, filed ______, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature And Man Date Considered 3/18/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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Date of Deposit: July 15, 2004

Page 1 of 1 Attorney Docket No.: 18242-508 CIP2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/055,143
Filing Date	January 22, 2002
First Named Inventor	Chapman
Group Art Unit	1648
Examiner Name	Ulrike Winkler
Attorney Docket Number	18242-508 CIP2 (VI-8 CIP2)

the war is	U.S. PATENT DOCUMENTS									
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate			
M	A35	4,567,045	01/28/86	Lyons	424	195.1				

U.S. RUBLISHED APPLICATION DOCUMENTS										
Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate			

	FOREIGN PATENT DOCUMENTS								
Exam Initials			•	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No			
π	B23	wo	96/39818	CERUS CORPORATION	12/19/96				

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
U	C61	Dzik, S., Infusionstherapie und Transfusionmedizin, 25(5):282-287 (1998).
	C62	Hope, et al., Blood, Abstract #2268, 98(11 - part 1):542a (2001).
	C63	Manuclidis, et al., Science, 200(4345:1069-1071 (1978).
10	C64	International Search Report for PCT/US02/01878, mailing date: October 8, 2003.

Senai No 35 U.S.C. §12	0 (c	pntin	, filed uation, continuation-in-pa	 •	nier illing date under
Examiner Signature	7		Mr. Mr	 Date Considered	8/18/04

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application,

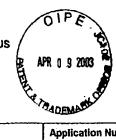
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10/055,143 **Application Number** Modified Form 1449/PTO 01/22/02 Filing Date First Named Inventor Chapman INFORMATION DISCLOSURE STATEMENT BY APPLICANT **Group Art Unit** 1644 Examiner Name Not Yet Assigned (use as many sheets as necessary) 18242-508 CIP (VI-8 CIP) Attorney Docket Number

LIS. PATENT DOCUMENTS									
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate		
W	A34	3,487,157	12/30/1969	Pierce, et al.		_	10/31/1966		

LIS PUBLISHED APPLICATION DOCUMENTS									
Exem Initials	Cite No.	U.S. Published Application No.	Published Date		Class	Sub Class	Filing Date If Appropriate		

FOREIGN PATENT DOCUMENTS										
Exam Initials	Cite No.	Foreign Patent Document Office Number		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No				
W	B22	รบ	1809836	USSR Chem Phys Inst (with English translation of abstract)	04/15/1993	Х				

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.		
W	C51	Amor and Webb (1986). J Med Virol 19: 367-376.		
	C52	Budowsky, et al. (1985). Biorg Khim 11: 989-991 (with English Translation of Abstract).		
	C53	Budowsky, et al. (1996). Vacc Res 5: 29-39.	•	
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	C55	Chapman (2001). Transf Apher Sci 25: 191-192.	*	
	C56	Hassanian (1992). Revue Elev Med Vet Pays Trop 45: 231-234.		
	C57	Kasermann, et al. (2001). Anti Res 52: 33-41.	7	
	C58	Lobastov (1983). Probl Virusol Mol Biol Gistol S-kh Zhivotn, ed. Belov: 4-6 (with English Translation).	7 .	
	C59	Snyder, et al. (2001). 43 rd Ann ASH Meeting 2969 (ABSTRACT ONLY): 709a.		
4	C60	Zalesska (1988). "Inactivation of viral genome by beta-propiolactone and ethyleneimines us bacteriophage MS-2 as an example" Russian State Library (with English translation).		

* a copy of this reference is not provided as it wa	s previously cited by or submitted to the office in a prior application
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25 H.C.C. \$400 (continuation continuation in no	d and divisional applications)

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